Five-Minute 8-plex Mouse mAb Isotyping Kit Cat. # E001-K004

A lateral flow assay for simultaneous determination of 4 mouse Ig heavy chain classes and 4 light chain types

For Research Use Only

Product Description

The Five-Minute 8-plex Mouse mAb Isotyping Kit provides a lateral flow assay for monoclonal antibody class and subclass, and light chain type determination. When a sample is loaded onto the cassette, the antibodies will form soluble complexes with pre-embedded gold conjugates. These complexes are resolved and captured by class or isotype specific antibodies impregnated at different areas of the membrane. As a result, a red line will appear at the corresponding region with isotype indicated. This kit can be used to assay for IgG1, IgG2a, IgG2b, IgG3, IgA, and IgM, along with lambda and kappa light chain types.

Kit Components

The kit contains 5 (Cat. E001-K004-5) or 20 (Cat. E001-K004-20) pouches with 2 cassettes in each pouch. One cassette is for assessing IgG1, IgG2a, IgG2b, IgG3, and the other one is for Kappa, Lambda, IgA and IgM. Please note that a control ("C") line is included in both cassette.

Storage

Please keep the strips in their original packaging at room temperature. This product is stable for up to 18 months from the certified date. Please do NOT freeze the strips.

Sample Preparation

The minimum detectable concentration is 100 ng/mL
Below is our recommendation on sample preparatio

Cell Culture Supernatant	Purified Antibody	Ascites
1:100 dilution in PBS (optional)	0.5-2 µg/mL in PBS	1:10,000 in PBS *

** Normally, ascites fluid contains multiple Igs. The kit can only be used to determine the relative distribution of the main isotypes.*

Protocol

1. Place the cassettes on a flat surface.
2. Add 100 µL sample directly to the well and wait for 5 minutes.
3. A red line should appear on the membrane with specific isotypes indicated at the same position. A red line should also appear at the "C" position.

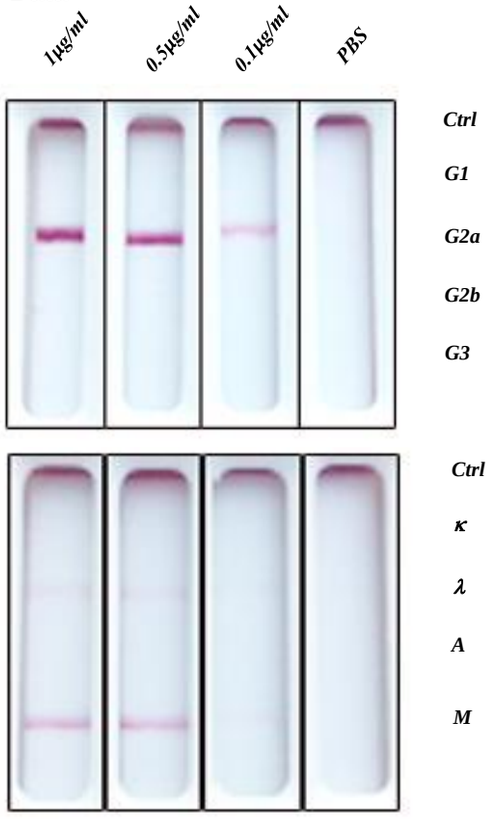
NOTE1: *Prepare samples before removing the strips from the sealed pouch.*

NOTE2: *Do not read after 20 minutes.*

NOTE3: *The color of tissue culture medium may cause high background. To address this issue, additional 40-60 µL PBS can be added into the well to clear the background.*

NOTE4: *There is no cross reactivity among isotypes. Multiple red lines would indicate the presence of more than one antibody types.*

Data



Serial dilutions of a mouse mAb were loaded onto the isotyping cards to allow determination of its isotype. The images were taken five minutes afterward.

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